



Grease-II Workshop Jan 2010

The GREASE Project

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GREASE-II

- Methods for automatic generation of **geographic signatures** for documents
- **Query expansion** and automatic relevance feedback methods for geographic queries.
- **Fusion** of geographic and textual **rankings**.
- Support for **multi-lingual documents** and a **model of the physical geography** of the world in the knowledge-base.
- ~~Information selection from large data sets using geographic criteria through **faceted interfaces**.~~



GREASE-II Calendar

- Submitted 8/2006
- Approved 8/2007
- “Started” 1/2008
 - New students 09/2008
 - New student 09/2009
- **Ends 09/2010**
 - **Extension granted.**

Grease-II WP

1. Project Management
2. **Multi-lingual geographic terminologies and Ontologies**
3. **Geographic Information Extraction and Knowledge Integration**
4. **Geographic Information Retrieval: geographicity, geographic pseudo-relevance feedback, geo-similarity.**
5. ~~Faceted interfaces for GIR~~
6. Prototyping
7. Evaluation and Dissemination

GREASE Contribs

- Geo-Ontology creation + Ontology enrichment
- Web mining software for geographic names and geographic relationships
- Geo similarity metrics
- ~~Visualisation: mobile search results~~

GikiCLEF Participation

- 2009 – second
 - Naïve, once again
 - Info boxes do not contain everything
 - EN wikipedia is much more rich

Geo-Ontology

- GKB model now extended with physical domain (rivers, mountains, landmarks, ...)
- Language support
 - Multi-lingual
 - Demonyms (Welsh, Finn)
 - Connecting words (*do* Porto)
- ***GEO-NET-PT-02* released**
http://xldb.di.fc.ul.pt/wiki/Geo-Net-PT_02



Publications

- Website: <http://xldb.fc.ul.pt/wiki/Grease>
 - Articles, communications, Technical Report (see website)
 - Slides of 2 workshops (Jan 2009, Jul 2009)
 - Slides of today's workshop (upcoming)
- 1+3 Dissertations in 2009:
M Chaves, I Anastácio, D Batista, C Rodrigues
- October 2009 Progress Report

GREASE has **6 presentations** at the upcoming ACM GIR 2010



Jan 26th 2010 Workshop

- **14:15** - Overview of the project and progress Mário J. Silva, 15min
- **Linkable Geographic Ontologies. Javier Lopez-Pellicer (avatar: Mário)**
- **Generating Geographic Signatures for Semantic Retrieval. David Batista**
- **Geo-Disambiguation using Semantic Similarity. Bibek Behera**
- **How Geographic was GikiCLEF? A GIR-critical Review. Diana Santos.**

<short break>

- **16:00** Using the Geographic Scopes of Web Documents for Contextual Advertising. Ivo Anastácio
- Learning to Rank for Geographic Information Retrieval. Bruno Martins
- A Semantic-flavored Query Reformulation Strategy for Geographic Queries Nuno Cardoso (avatar: Diana)

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- **17:30** Plan for 2010
- **18:00** Workshop ends.